

PS PLUS SERIES

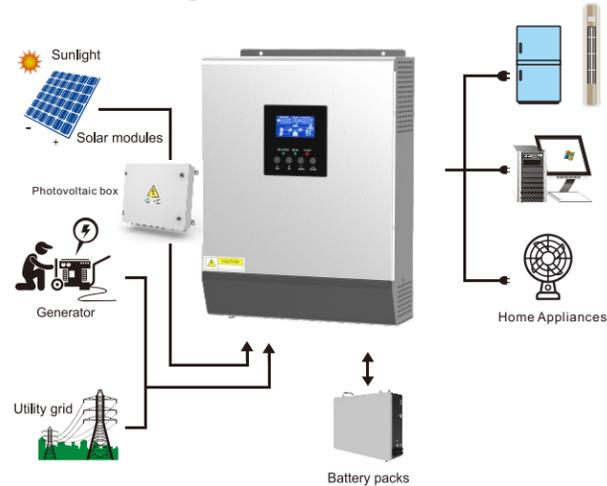
Off Grid Solar Inverter



Features

- Pure sine wave inverter
- Built-in PWM solar charge controller
- Output power factor 1
- Selectable input voltage range for home use
- Selectable charging current based on applications
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Parallel operation with up to 6 units available for 5KVA
- Cold start function

Solar System Connection



Overview



Product Data Sheet

| MODEL | PS PLUS 1K -12 | PS PLUS 1.5K-24 | PS PLUS 3K-24 | PS PLUS 5K-48 |
|---------------------------------------|--|-----------------|---------------|-----------------------------|
| Rated Power | 1000VA/1000W | 1500VA/1500W | 3000VA/3000W | 5000VA/5000W |
| INPUT | | | | |
| Voltage | 230VAC | | | |
| Selectable Voltage Range | 170-280VAC(for personal computers) 90-280VAC(for home appliances) | | | |
| Frequency Range | 50Hz/60Hz (Auto sensing) | | | |
| OUTPUT | | | | |
| AC Voltage Regulation (Batt.Mode) | 230VAC±5% | | | |
| Surge power | 2000VA | 3000VA | 6000VA | 10000VA |
| Efficiency(Peak) | 90% | 93% | 93% | 93% |
| Transfer Time | 10ms (for personal computers) 20ms (for home appliances) | | | |
| Wave form | Pure Sine Wave | | | |
| BATTERY & AC CHARGER | | | | |
| Battery Voltage | 12VDC | 24VDC | 24VDC | 48VDC |
| Floating Charge Voltage | 13.5VDC | 27VDC | 27VDC | 54VDC |
| Overcharge Protection | 15.0VDC | 30VDC | 30VDC | 60VDC |
| Maximum charge current | 10A/20A | 20A/30A | 20A/30A | 10A/20A/30A/ 40A/50A/60A |
| SOLAR CHARGER & AC CHARGER | | | | |
| Charging Current | 50A | | | |
| Maximum PV Array Open Circuit Voltage | 40VDC | 80VDC | 80VDC | 105VDC |
| PV Range @ Operating Voltage | 15-18VDC | 30-32VDC | 30-40VDC | 60-105VDC |
| Standby Power Consumption | 1W | 2W | 2W | 3W |
| PHYSICAL | | | | |
| Dimension.D*W*H(mm) | 240*327.6*110 | 368*272*100 | 368*272*100 | 467.6*295*120 |
| Net Weight (kgs) | 4.5kg | 5.5kg | 6.9kg | 9.8kg |
| OPERATING ENVIRONMENT | | | | |
| Humidity | 5% to 95% Relative Humidity(Non-condensing) | | | |
| Operating Temperature | 0°C to 55°C | | | |
| Storage Temperature | -15°C to 60°C | | | |

Power Connection

Parallel operation with up to 6 units available for 5KVA model

